



(43) International Publication Date 29 December 2004 (29.12.2004)

PCT

(10) International Publication Number WO 2004/113519 A3

(51) International Patent Classification⁷: 15/53, A61P 3/04

C12N 9/04,

(21) International Application Number:

PCT/GB2004/002628

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/479,073

17 June 2003 (17.06.2003) US

- (71) Applicant (for all designated States except US): DEVGEN NV [BE/BE]; Technologiepark 30, B-9052 Zwijnaarde (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DE WILDE, Gert, Jules, Hector [BE/BE]; Dr. Armand Rubbensstraat 25, B-9240 Zele (BE). SAUNDERS, Michael, John, Scott [GB/BE]; 132 rue Berkendael, B-1050 Brussels (BE). LOGGHE, Marc, Georges [BE/BE]; David Tenierslaan 4, B-9051 St. Denys-Westrem (BE).
- (74) Agents: BALDOCK, Sharon, Claire et al.; BOULT WADE TENNANT, Verulam Gardens, 70 Gray's Inn Road, LONDON WC1X 8BT (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

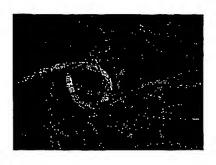
Published:

with international search report

(88) Date of publication of the international search report: 24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ALCOHOL DEHYDROGENASE SEQUENCES USEFUL FOR DEVELOPING COMPOUNDS FOR THE PREVENTION AND/OR TREATMENT OF METABOLIC DISEASES





(57) Abstract: The present invention relates to nucleotide sequences, particularly those of SEQ ID NO's 2, 7 and 9 that encode and may be used to express amino acid sequences that are useful in the identification and development of compounds for the prevention and treatment of metabolic diseases such as diabetes and obesity. The invention also relates to the amino acid sequences - such as proteins and/or polypeptides - that are encoded by, and that may be obtained by suitable expression of, the nucleotide sequences of the invention, particularly those set out in SEQ ID NO's 1, 6 and 8. The invention further relates to genetic constructs, host cells and organisms that have been transformed with the nucleotide sequences of the invention and that can express the amino acid sequences of the invention and methods and compositions which utilize the nucleotide and amino acid sequences of the invention.

O 2004/113519 A3

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 29 December 2004 (29.12.2004)

(10) International Publication Number WO 2004/113519 A2

(51) International Patent Classification7: 15/53, A61P 3/04

C12N 9/04.

(21) International Application Number:

PCT/GB2004/002628

(22) International Filing Date:

17 June 2004 (17.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/479,073

17 June 2003 (17.06.2003)

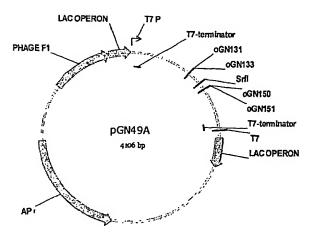
- (71) Applicant (for all designated States except US): DEVGEN NV [BE/BE]; Technologiepark 30, B-9052 Zwijnaarde (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DE WILDE, Gert, Jules, Hector [BE/BE]; Dr. Armand Rubbensstraat 25, B-9240 Zele (BE). SAUNDERS, Michael, John, Scott [GB/BE]; 132 rue Berkendael, B-1050 Brussels (BE).

LOGGHE, Marc, Georges [BE/BE]; David Tenierslaan 4, B-9051 St. Denys-Westrem (BE).

- (74) Agents: BALDOCK, Sharon, Claire et al.; BOULT WADE TENNANT, Verulam Gardens, 70 Gray's Inn Road, LONDON WC1X 8BT (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AMINO ACID SEQUENCES USEFUL FOR DEVELOPING COMPOUNDS FOR THE PREVENTION AND/OR TREATMENT OF METABOLIC DISEASES AND NUCLEOTIDE SEQUENCES ENCODING SUCH AMINO ACID **SEQUENCES**



(57) Abstract: The present invention relates to nucleotide sequences, particularly those of SEQ ID NO's 2, 7 and 9 that encode and may be used to express amino acid sequences that are useful in the identification and development of compounds for the prevention and treatment of metabolic diseases such as diabetes and obesity. The invention also relates to the amino acid sequences - such as proteins and/or polypeptides - that are encoded by, and that may be obtained by suitable expression of, the nucleotide sequences of the invention, particularly those set out in SEQ ID NO's 1, 6 and 8. The invention further relates to genetic constructs, host cells and organisms that have been transformed with the nucleotide sequences of the invention and that can express the amino acid sequences of the invention and methods and compositions which utilize the nucleotide and amino acid sequences of the invention.





Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

 without international search report and to be republished upon receipt of that report For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.